COLOUR TELEVISION

CS21Z30/21Z40/21Z45/21Z50/ 21Z57/21Z58/21K40/21M40/ 21E22

Owner's Instructions

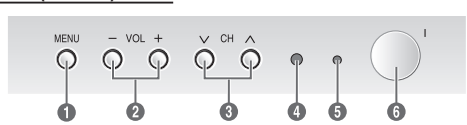
Before operating, please read this manual thoroughly, and retain it for future reference.

Register your product at www.samsung.com/global/register.
Record your Model and Serial number.
▪ Model _____ ▪ Serial No. _____

Control Panel (depending on the model)

➢ The product colour and shape may vary depending on the model.

Front (or Side) Panel



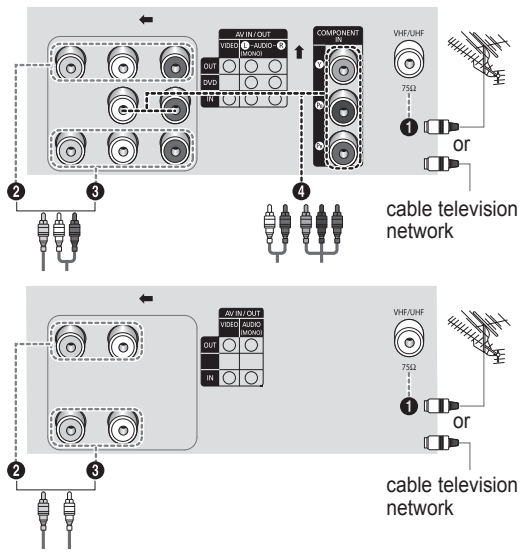
❶ On-screen menu display
❷ Volume adjustment
❸ Channel selection
❹ Remote control sensor
❺ Standby indicator
❻ Power on/off

◆ You can use the ❸ buttons to switch the TV on when it is in standby mode depending on the model.
◆ The ❷ and ❸ buttons also have the same function as the ◄/►/▲/▼ buttons on the remote control.
◆ If the remote control no longer works or you have misplaced it, you can use the controls on the panel of the television.

Connection Panel (depending on the model)

➢ The product colour and shape may vary depending on the model.

Rear Panel



☛ Whenever you connect an audio or video system to your television, ensure that all elements are switched off.
☛ Please be sure to match the colour coded input terminals and cable jacks.

Connecting to an Aerial or Cable Television Network

Connect the aerial or network input cable to the ❶ (75 Ω coaxial socket).
To view television channels correctly, a signal must be received by the set from one of the sources: an outdoor aerial, cable television network, or satellite network.
If you are using an indoor aerial, you may need to adjust it when tuning your television until you obtain a picture that is both sharp and clear.

Connecting to the RCA Output

The RCA❷ connectors are used for equipment, such as a recording VCR or audio system.

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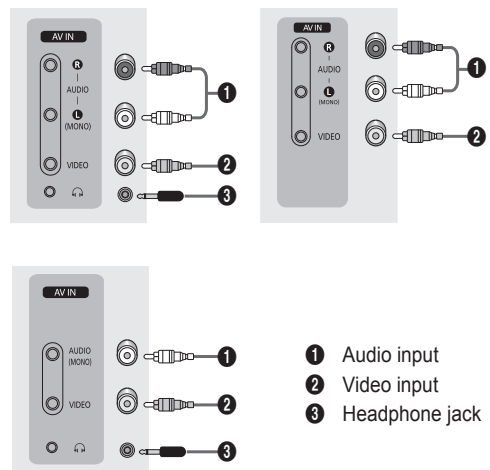
Connecting to the RCA Input

The RCA❸ connectors are used for equipment, such as a VCR, DVD, decoder, satellite receiver, video game device, or video disc player. (When using the mono equipment, connect to the **AUDIO-L** input connector.)
The RCA❹ connectors are used for equipment such as a DVD with component output (480i only).

Front (or Side) Panel



Connecting to the RCA Input

The ❶ (**AUDIO-L/R** or **AUDIO**) and ❷ (**VIDEO**) connectors are used for equipment, such as a camcorder, video disc player, or video game device.

Connecting Headphones

The ❸ (headphone) jack is used for watching a television programme without disturbing the other people in the room. Prolonged use of headphones at a high volume may damage your hearing.

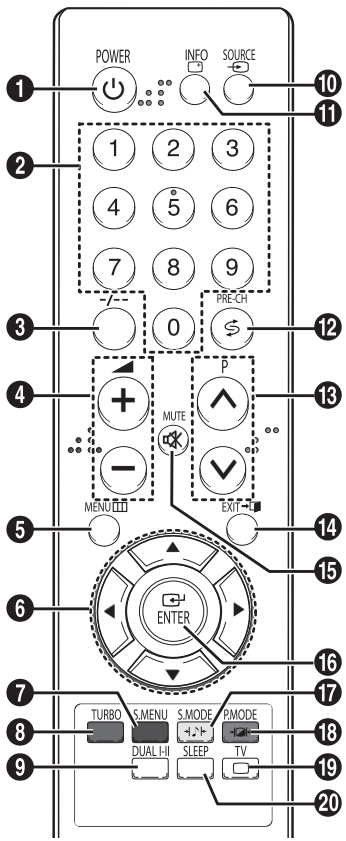
➢ When both the front (or side) AV and rear connectors are connected to external equipment, the front (or side) AV receives priority.

AA68-03905A-04

Remote Control (depending on the model)

➢ Operation of remote control may be affected by bright artificial light near to the TV.

➢ This is a special remote control for the visually impaired, and has Braille points on the POWER, Channel and Volume buttons.



❶ **POWER**
Used to switch the TV on and off.

❷ **Numeric buttons**
Used to select channels directly.

❸ **-/--**
Used to select a channel numbered ten or over. Press this button, then "--" symbol is displayed. Enter the two-digit channel number.

❹ ◢⊕ / ◢⊖
Used to increase or decrease the volume.

❺ **MENU**
Used to display the on-screen menu or return to the previous menu.

❻ **▲/▼/◀/▶**
Used to control the cursor in the menu.

❼ **S.MENU** (option)
Used to display the sound menu.

❽ **TURBO** (option)
Used to select the turbo sound option.

❾ **DUAL I-II** (option)
Used to select the sound mode.

❿ **SOURCE**
Used to display all of the available video sources.

⓫ **INFO**
Used to view the channel information and setting status you selected.

⓬ **PRE-CH**
Used to switch repeatedly between the last two channels displayed.

⓭ **P ⊙ / P ⊙**
Used to display the next or previous stored channel.

⓮ **EXIT**
Used to exit from any display or return to normal viewing.

⓯ **MUTE**
Used to switch the sound off temporarily. To turn the sound back on, press the **MUTE**, ◢⊕, or ◢⊖ button.

⓰ **ENTER**
While using the on-screen menus, press the **ENTER** button to activate (or change) a particular item.

⓱ **S.MODE** (option)
Used to select the sound effect.

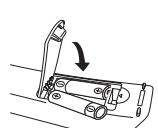
⓲ **P.MODE**
Used to select the picture effect.

⓳ **TV**
Used to return to the TV mode when it is in external input mode.

⓴ **SLEEP**
Used to select a preset time interval for automatic turn off.

Installing Batteries

Remove the cover. Install two AAA size batteries, then replace the cover.
When the remote control does not operate normally, check that the "+" and "–" ends of the batteries are inserted correctly or the batteries are drained.



➢ Do not mix battery types, i.e. alkaline and manganese.

Switching the Television On and Off

The mains lead is attached to the rear of the television

1 Plug the mains lead into an appropriate socket.
➢ The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.

2 Press the " **I** " button (On/Off) on the front (or side) of the television.

3 Press the **POWER** button on the remote control to switch the television on. The programme that you were watching last is re-selected automatically. If you have not yet stored any channels, no clear picture appears. Refer to "Channel - Auto Store" on page 3 or "Channel - Manual Store" on page 4.
➢ If the television is initially powered on, several basic customer settings proceed automatically. Refer to "Setup - Plug & Play" on page 3.

4 To switch the television off, press the " **I** " button (On/Off) on the front (or side) of the television.

Placing the Television in Standby Mode

The television can be placed in standby mode, in order to reduce power consumption and wear of the cathode ray tube. Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1 Press the **POWER** button on the remote control while viewing.
The television is in standby mode.

2 To switch the television back on, simply press it again.
➢ You can also switch on by pressing the **TV**, **P** ⊙ / **P** ⊙, or numeric button.

☛ Do not leave the television in standby mode for long periods of time (when you are away on holiday, for example). Turn the television off by pressing the " **I** " button (On/Off) on the front (or side) of the television. It is best to unplug the set from the mains and aerial.

Viewing the Menus

1 Press the **MENU** button.
The main menu is displayed on the screen. Its left side has five icons: **Input**, **Picture**, **Sound**, **Channel**, and **Setup**.

2 Press the ▲ or ▼ button to select one of the icons.
Press the **ENTER** button to access the icon's sub-menu.

3 Press the ▲ or ▼ button to move to items in the menu.
Press the **ENTER** button to enter items in the menu.

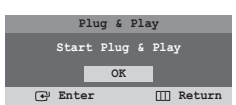
4 Press the ▲/▼/◄/► button to change the selected items.
Press the **MENU** button to return to the previous menu.

5 Press the **EXIT** button to exit from the menu.

Setup - Plug & Play (depending on the model)

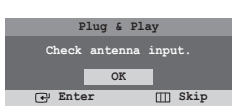
When the television is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

1 If the television is in standby mode, press the **POWER** button on the remote control.
The message **Start Plug & Play** is displayed.
To start Plug & Play, press the **ENTER** button.
The **Language** menu is displayed.



➢ The **Language** menu will automatically appear after several seconds, even if the **ENTER** button is not pressed.

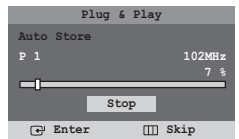
2 Select the appropriated language by pressing the ▲ or ▼ button. Press the **ENTER** button.
The **Check antenna input.** is displayed.

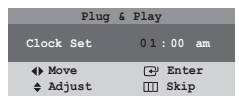


➢ If any language is not selected, the language menu will disappear about 30 seconds later.

continued...

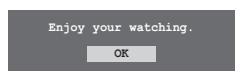
3 To search the channels, press the **ENTER** button.
To stop the search, press the **ENTER** button.
When the channel searching has finished, the **Clock Set** menu is displayed.





4 Press the ◄ or ► button to move to the hour or minute.
Set the hour or minute by pressing the ▲ or ▼ button.

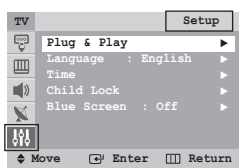
5 When you have finished, press the **MENU** button.
The **Enjoy your watching.** is displayed, and then the channel which has been stored will be activated.



Re-setting the Plug & Play

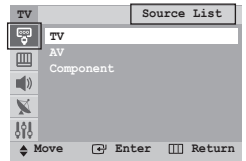
Method:

MENU ➔ ▲/▼ (Setup) ➔ ENTER ➔ ▲/▼ (Plug & Play) ➔ ENTER



Input - Source List

You can switch between viewing signal from connected equipment, such as a VCR, DVD, set-top box, and the TV source (broadcast or cable).



➢ You can change the required external source simply by pressing the **SOURCE** button on the remote control. It might take a short period of time for pictures to be switched. To return to the TV mode, press the **TV** button on the remote control.

Channel - Auto Store

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

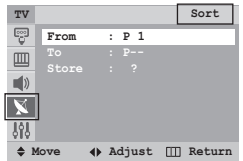
Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). The programme originally selected is then displayed.

➢ To stop the search before it has finished, press the **ENTER** button.

When finished, the **Sort** menu is displayed. To sort the stored channels into the desired numerical order, refer to "Channel - Sort" on page 4.
To exit without sorting, press the **EXIT** button.

Channel - Sort

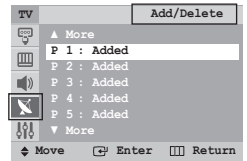
This operation allows you to change the programme numbers of stored channels.
This operation may be necessary after using auto store.



- **From** : Channel number to be changed.
- **To** : New channel number to be identified.
- **Store** : Confirmation the exchange of channel numbers.

Channel - Add/Delete

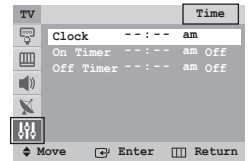
You can exclude channels you have chosen from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed. All of the channels that you did not specifically choose to skip are displayed during scanning.



Method:

ENTER ➔ ▲/▼ ➔ ENTER : Select **Added** or **Deleted**.

Setup - Time



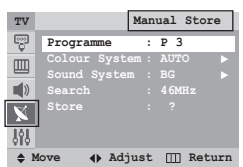
- **Clock**
  You can set the television clock so that the current time is displayed when pressing the **INFO** button on the remote control. You must also set the time if you wish to use the automatic on or off timers.
  ➢ When pressing the " **I** " button (On/Off) on the front (or side) of the television, the clock setting will be reset.
- **On Timer / Off Timer**
  You can set the On/Off timers so that the television will switch on or off automatically at the time you select.
  ☛ You must set the clock first.

☛ **Auto Power Off**
When you set the timer "On", the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating, which may occur if a TV is on for too long.

Channel - Manual Store

You can store channels, including those received via cable networks. When storing channels manually, you can choose:

– Whether or not to store each of the channels found
– The programme number of each stored channel which you wish to identify

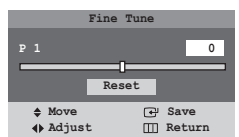


- **Programme** (Programme number to be assigned to a channel)
- **Colour System** : **AUTO** / **PAL** / **SECAM** / **NTSC4.43** / **NTSC3.58**
- **Sound System** : **BG** / **DK** / **I** / **M**
- **Search** (When you do not know the channel numbers) The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number)

➢ If there is no sound or abnormal sound, re-select the sound standard required.

Channel - Fine Tune

If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during the search and store operation. If however the signal is weak or distorted, you may have to fine-tune the channel manually.

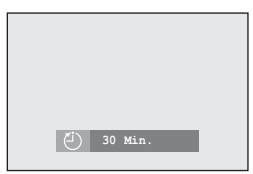


Method:

◄/► : You can obtain a sharp and clear picture and good sound quality.
▲/▼ ➔ **ENTER** : You can reset the setting.
MENU : You can memorise adjusted picture or sound.

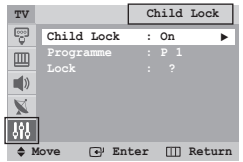
Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.



You can select these options simply by pressing the **SLEEP** button on the remote control.
If the sleep timer is not yet set, Off is displayed. If it is already set, the remaining time before which the television switches to standby mode is displayed.

Setup - Child Lock

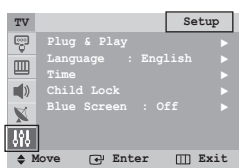


This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using front (or side) panel buttons. Only remote control can release the Child Lock setting, so keep the remote control away from children.

- **Child Lock : On/Off**
  If you want to unlock a channel, set to **Off**.
- **Programme :** Channel number to be locked.
- **Lock :** When press the **ENTER** button, the **Locked** is displayed.

➢ If any channel is locked, you can not access to the **Channel** and **Child Lock** menu by using the control buttons on the TV panel (the **Not available** is displayed in the **Child Lock** menu). You can accessby using the remote control only.

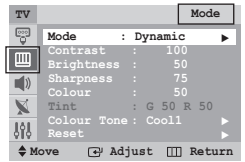
Setup - Language / Blue Screen



- **Language**
  It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.

- **Blue Screen**
  If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the **Blue Screen** to **Off**.

Picture - Mode



- **Mode** : **Dynamic** / **Standard** / **Movie** / **Custom**
  You can select the type of picture which best corresponds to your viewing requirements.
  ➢ You can select these options simply by pressing the **P.MODE** button on the remote control.

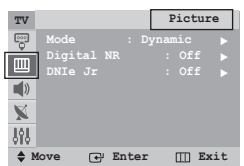
- **Contrast** / **Brightness** / **Sharpness** / **Colour** / **Tint** (NTSC only)
  The television has several settings which allow you to control the picture quality.

- **Colour Tone** : **Cool2** / **Cool1** / **Normal** / **Warm1** / **Warm2**

- **Reset**
  You can return to the factory defaults.
  The reset function is set for each mode (**Dynamic**, **Standard**, **Movie**, or **Custom**).

Picture - Digital NR / DNIe Jr

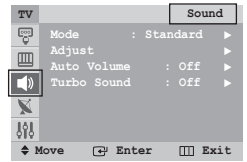
(depending on the model)



- **Digital NR**
  If the signal received by the television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

- **DNIe Jr**
  This feature bring you more detailed image with detail enhancement, contrast enhancement and white enhancement. New image compensation algorithm gives brighter, clearer, much detailed image to you.
  DNIe Jr technology will fit every signals into your eyes.

Sound - (depending on the model)
Mode / Adjust / Auto Volume / Turbo Sound



- **Mode** : **Standard** / **Music** / **Movie** / **Speech** / **Custom**
  You can select the type of special sound effect to be used when watching a given broadcast.
  ➢ You can select these options simply by pressing the **S.MODE** button on the remote control.

- **Adjust** : **Bass** / **Treble** / **Balance**
  The television has several settings which allow you to control the sound quality.
  ➢ If you make any changes to these settings, the sound mode is automatically switched to **Custom**.

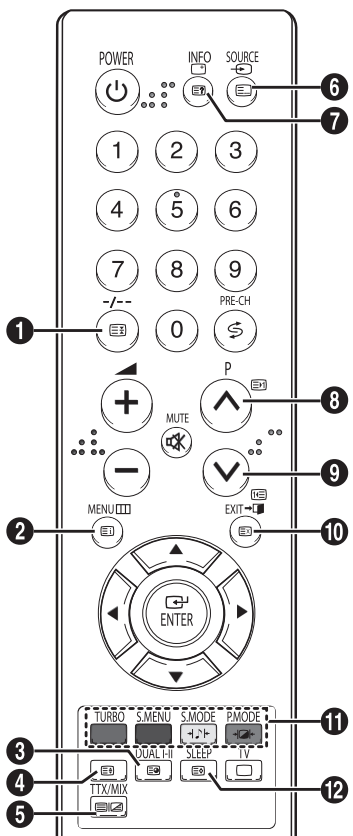
- **Auto Volume**
  Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

- **Turbo Sound**
  This feature suitably emphasizes both higher and lower bands of sound (and includes other effects). You can enjoy more magnificent and dynamic sound when watching music, movie, or other channels.
  ➢ You can change the options simply by pressing the **TURBO** button on the remote control.

Teletext Feature (depending on the model)

Most television stations provide written information services via teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

☛ For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.



❶ **(hold)**
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

❷ **(index)**
Used to display the index (contents) page at any time while you are viewing teletext.

❸ **(sub-page)**
Used to display the available sub-page.

❹ **(size)**
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❺ **(teletext on/mix)**
Press to activate teletext mode after selecting the channel providing the teletext service. Press it again to overlap the teletext with the current broadcasting screen.

❻ **(mode)**
Press to select the teletext mode (LIST/FLOF).
If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the **(store)** button.

❼ **(reveal)**
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❽ **(page up)**
Used to display the next teletext page.

❾ **(page down)**
Used to display the previous teletext page.

❿ **(cancel)**
Used to display the broadcast when searching for a page.

⓫ **Coloured buttons (red/green/yellow/blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.

⓬ **(store)**
Used to store the teletext pages.

Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks. If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture

- Check that the mains lead has been connected to a wall socket.
- Check that you have pressed the " **I** " button (On/Off) and the **POWER** button.
- Check the picture contrast and brightness settings.
- Check the volume.

Normal picture but no sound

- Check the volume.
- Check whether the volume **MUTE** button on the remote control has been pressed.

No picture or black and white picture

- Adjust the colour settings.
- Check that the broadcast system selected is correct.

Sound and picture interference

- Try to identify the electrical appliance that is affecting the television, then move it further away.
- Plug the television into a different mains socket.

Blurred or snowy picture, distorted sound

- Check the direction, location and connections of your aerial.
  This interference often occurs due to the use of an indoor aerial.

Remote control malfunctions

- Replace the remote control batteries.
- Clean the upper edge of the remote control (transmission window).
- Check that the "+" and "–" ends of the batteries are inserted correctly.
- Check that the batteries are drained.

OSD Map

✻ : It is variable depending on the model.

- **Input**
  - **Source List** ✻ – **TV / AV / Component**
- **Picture**
  - **Mode** – **Mode** – **Dynamic / Standard / Movie / Custom**
    - **Contrast**
    - **Brightness**
    - **Sharpness**
    - **Colour**
    - **Tint** (NTSC only)
    - **Colour Tone** – **Cool2 / Cool1 / Normal / Warm1 / Warm2**
    - **Reset**
  - **Digital NR** ✻ – **Off / On**
  - **DNIe Jr** ✻ – **Off / On**
- **Sound**
  - **Mode** ✻ – **Standard / Music / Movie / Speech / Custom**
  - **Adjust** ✻ – **Bass / Treble / Balance**
  - **Auto Volume** ✻ – **Off / On**
  - **Turbo Sound** ✻ – **Off / On**
- **Channel**
  - **Auto Store**
  - **Manual Store** – **Programme**
    - **Colour System** ✻ – **AUTO / PAL / SECAM / NTSC4.43 / NTSC3.58**
    - **Sound System** ✻ – **BG / DK / I / M**
    - **Search**
    - **Store**
  - **Add/Delete**
  - **Fine Tune**
  - **Sort**
- **Setup**
  - **Plug & Play** ✻
  - **Language** ✻
  - **Time** – **Clock**
    - **On Timer**
    - **Off Timer**
  - **Child Lock**
  - **Blue Screen** – **Off / On**

Important Warranty Information Regarding Television Format Viewing

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. ***Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.*** On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven CRT aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

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